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DATA  
from 11/3/07

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: U.S. EPA

Laboratory Job Number: L0716999

Address: N.E. Regional Lab-Office of Env. Meas. Date Received: 14-NOV-2007  
11 Technology Drive  
North Chelmsford, MA 01863-2431 Date Reported: 20-NOV-2007

Attn: Mr. Dan Boudreau *DB 11/29/07*

Delivery Method: Alpha

Project Number: 07110022

Site: O CHEMICAL

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0716999-01	MW202D	
L0716999-02	MW10S	
L0716999-03	GW39	
L0716999-04	GW76S	
L0716999-05	GW55S	

*Handwritten:* 0.71, 0.1, 2, 10.0

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by:

*Paul L. Weston*  
Technical Representative

280863  
SDMS DocID

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0716999

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The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Nitrogen, Ammonia

L0716999-01 has an elevated detection limit due to the 10x dilutions required by the high concentration of Nitrogen in the sample.

The MS % recovery is below the acceptance criteria for the method due to sample matrix.

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0716999-01

MW202D

Sample Matrix:

WATER

Date Collected: 13-NOV-2007 11:00

Date Received : 14-NOV-2007

Date Reported : 20-NOV-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Nitrogen, Ammonia	137	mg/l	4.00	30 4500NH3-BE	1119 19:09 JL	

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0716999-02

MW10S

Sample Matrix:

WATER

Date Collected: 13-NOV-2007 12:00

Date Received : 14-NOV-2007

Date Reported : 20-NOV-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Nitrogen, Ammonia	1.85	mg/l	0.400	30 4500NH3-BE		1119 14:38	JL

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0716999-03

GW39

Sample Matrix:

WATER

Date Collected: 13-NOV-2007 14:00

Date Received : 14-NOV-2007

Date Reported : 20-NOV-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Nitrogen, Ammonia	ND	mg/l	0.400	30 4500NH3-BE	1119 15:00	JL

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0716999-04

GW76S

Sample Matrix:

WATER

Date Collected: 13-NOV-2007 14:45

Date Received : 14-NOV-2007

Date Reported : 20-NOV-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Nitrogen, Ammonia	8.74	mg/l	0.400	30 4500NH3-BE	1119 15:11	JL

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0716999-05

GW55S

Sample Matrix:

WATER

Date Collected: 13-NOV-2007 16:00

Date Received : 14-NOV-2007

Date Reported : 20-NOV-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Nitrogen, Ammonia	118	mg/l	0.400	30 4500NH3-BE		1119 15:29	JL

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0716999

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Nitrogen, Ammonia for sample(s) 01-05 (L0717115-01, WG302662-3)					
Nitrogen, Ammonia	ND	ND	mg/l	NC	20



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0716999

Parameter	% Recovery	QC Criteria
Nitrogen, Ammonia LCS for sample(s) 01-05 (WG302662-2)		
Nitrogen, Ammonia	82	80-120
Nitrogen, Ammonia SPIKE for sample(s) 01-05 (L0716999-02, WG302662-4)		
Nitrogen, Ammonia	70	75-125

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0716999

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01-05 (WG302662-1)						
Nitrogen, Ammonia	ND	mg/l	0.400	30 4500NH3-BE	1119 17:29 JL	

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF.  
18th Edition. 1992.

**GLOSSARY OF TERMS AND SYMBOLS**

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



ENVIRONMENTAL PROTECTION AGENCY

ALPHA Job # 20216999

To Alpha Analytical Lab.

REGION 1

## CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS														
SAMPLERS: (Signature)																				
STA NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION															
MW2020	11/13/07	11:00		✓		1	✓													
MW08	1	12:00		✓		1	✓													
GW39	1	14:00		✓		1	✓													
GW76S	1	14:45		✓		1	✓													
GW53S	1	16:00		✓		1	✓													
						5														
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)										
[Signature]		11/13/07 7:45 AM		[Signature]		[Signature]		11/14/07 11:05		[Signature]										
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)										
[Signature]		11/14 1650		[Signature]		[Signature]														
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks												

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